

## ISP Documentation for Count Words Utility Function

### Input Domain Model

Characteristics	b1	b2
Contains alphabetic, hyphenated, or contraction words	True	False
Contains whitespaces	True	False
Contains dates (formatted without alphabets), time, and numbers	True	False
Contains dates (formatted with alphabets)	True	False
Contains markdown formatting symbols	True	False
Contains HTML tags (outside code blocks)	True	False
Contains math equations blocks	True	False
Contains code blocks	True	False

### IDM Relabeling Table

Characteristics	b1	b2
A	A1	A2
B	B1	B2
C	C1	C2
D	D1	D2
E	E1	E2
F	F1	F2
G	G1	G2
H	H1	H2

### Constraints

- This IDM is based on [IELT's word counting policy](#). Note that word count policy might be different in various programs.
- Additionally, since HTML tags can be used in Markdown to format elements, the tags will not be counted as words.
- Math equations and code blocks are not counted as words.
- Input is raw markdown text.

### Test Values and Example I/O

Criteria Used: Multiple base choice criterion (BCC)

Base inputs:

- A2 B2 C2 D2 E2 F2 G2 H2
- A1 B1 C2 D2 E2 F2 G2 H2

Test Value	Example Input	Example Output
<b>A1</b> B2 C2 D2 E2 F2 G2 H2	I'maTest-StringWithoutAnyWhitespace	1
A2 B2 C2 D2 E2 F2 G2 H2		0
A1 B1 C2 D2 E2 F2 G2 H2	I'm a test-string with whitespace	5
<b>A2</b> B1 C2 D2 E2 F2 G2 H2	\n\n \n	0
A1 B1 <b>C1</b> D2 E2 F2 G2 H2	30% at 22/10/2022 09.00 pm	4
A1 B1 C2 <b>D1</b> E2 F2 G2 H2	Created at 14th November	4
A1 B2 C2 D2 <b>E1</b> F2 G2 H2	*one*\n**two** and \n- **_list item_\n- list item too	7
A1 B2 C2 D2 E2 <b>F1</b> G2 H2	<span style="color:#00608D;"><b>Tsumugi Aoba</b></span>	2
A1 B2 C2 D2 E2 F2 <b>G1</b> H2	Everybody should know Euler's formula: $e^{i\theta} = \cos \theta + i \sin \theta$ These are Euler's most famous equations: \$\$\begin{aligned} e^{i\theta} &= \cos \theta + i \sin \theta \\ e^{i\pi} &= -1 \end{aligned}\$\$	11
A1 B2 C2 D2 E2 F2 G1 <b>H2</b>	This is a `code block`.	3